

## **RAW SEQUENCE LISTING**

**The Biotechnology Systems Branch of the Scientific and Technical  
Information Center (STIC) no errors detected.**

Application Serial Number: 10/549,619  
Source: PCT  
Date Processed by STIC: 06/22/2006

# ***ENTERED***

IAP7 Rec'd PCT/PTO 28 JUN 2006



PCT

## RAW SEQUENCE LISTING

DATE: 06/22/2006

PATENT APPLICATION: US/10/549,619

TIME: 13:00:47

Input Set : A:\sequence listing.txt

Output Set: N:\CRF4\06222006\J549619.raw

3 <110> APPLICANT: Nuevolution A/S  
 5 <120> TITLE OF INVENTION: Ligational encoding of small molecules  
 7 <130> FILE REFERENCE: P909PC00  
 C--> 9 <140> CURRENT APPLICATION NUMBER: US/10/549,619  
 C--> 9 <141> CURRENT FILING DATE: 2005-09-20  
 9 <160> NUMBER OF SEQ ID NOS: 19  
 11 <170> SOFTWARE: PatentIn version 3.3  
 13 <210> SEQ ID NO: 1  
 14 <211> LENGTH: 7  
 15 <212> TYPE: DNA  
 16 <213> ORGANISM: Artificial  
 18 <220> FEATURE:  
 19 <223> OTHER INFORMATION: synthetic  
 22 <220> FEATURE:  
 23 <221> NAME/KEY: misc\_feature  
 24 <222> LOCATION: (2)..(3)  
 25 <223> OTHER INFORMATION: n is a, c, g, t or u  
 27 <220> FEATURE:  
 28 <221> NAME/KEY: misc\_feature  
 29 <222> LOCATION: (5)..(6)  
 30 <223> OTHER INFORMATION: n is a, c, g, t or u  
 32 <400> SEQUENCE: 1  
 W--> 33 tnnanna 7  
 36 <210> SEQ ID NO: 2  
 37 <211> LENGTH: 7  
 38 <212> TYPE: DNA  
 39 <213> ORGANISM: Artificial  
 41 <220> FEATURE:  
 42 <223> OTHER INFORMATION: synthetic  
 45 <220> FEATURE:  
 46 <221> NAME/KEY: misc\_feature  
 47 <222> LOCATION: (2)..(3)  
 48 <223> OTHER INFORMATION: n is a, c, g, t or u  
 50 <220> FEATURE:  
 51 <221> NAME/KEY: misc\_feature  
 52 <222> LOCATION: (5)..(6)  
 53 <223> OTHER INFORMATION: n is a, c, g, t or u  
 55 <400> SEQUENCE: 2  
 W--> 56 annannt 7  
 59 <210> SEQ ID NO: 3  
 60 <211> LENGTH: 7  
 61 <212> TYPE: DNA  
 62 <213> ORGANISM: Artificial

## RAW SEQUENCE LISTING

DATE: 06/22/2006

PATENT APPLICATION: US/10/549,619

TIME: 13:00:47

Input Set : A:\sequence listing.txt

Output Set: N:\CRF4\06222006\J549619.raw

64 <220> FEATURE:  
 65 <223> OTHER INFORMATION: synthetic  
 68 <220> FEATURE:  
 69 <221> NAME/KEY: misc\_feature  
 70 <222> LOCATION: (1)..(1)  
 71 <223> OTHER INFORMATION: phosphate  
 73 <220> FEATURE:  
 74 <221> NAME/KEY: misc\_feature  
 75 <222> LOCATION: (2)..(3)  
 76 <223> OTHER INFORMATION: n is a, c, g, t or u  
 78 <220> FEATURE:  
 79 <221> NAME/KEY: misc\_feature  
 80 <222> LOCATION: (4)..(4)  
 81 <223> OTHER INFORMATION: carboxy d-T  
 83 <220> FEATURE:  
 84 <221> NAME/KEY: misc\_feature  
 85 <222> LOCATION: (5)..(6)  
 86 <223> OTHER INFORMATION: n is a, c, g, t or u  
 88 <400> SEQUENCE: 3

W--&gt; 89 tnnnnna

7

92 <210> SEQ ID NO: 4  
 93 <211> LENGTH: 7  
 94 <212> TYPE: DNA  
 95 <213> ORGANISM: Artificial  
 97 <220> FEATURE:  
 98 <223> OTHER INFORMATION: synthetic  
 101 <220> FEATURE:  
 102 <221> NAME/KEY: misc\_feature  
 103 <222> LOCATION: (1)..(1)  
 104 <223> OTHER INFORMATION: phosphate  
 106 <220> FEATURE:  
 107 <221> NAME/KEY: misc\_feature  
 108 <222> LOCATION: (2)..(3)  
 109 <223> OTHER INFORMATION: n is a, c, g, t or u  
 111 <220> FEATURE:  
 112 <221> NAME/KEY: misc\_feature  
 113 <222> LOCATION: (4)..(4)  
 114 <223> OTHER INFORMATION: Carboxy-dT  
 116 <220> FEATURE:  
 117 <221> NAME/KEY: misc\_feature  
 118 <222> LOCATION: (5)..(6)  
 119 <223> OTHER INFORMATION: n is a, c, g, t or u  
 121 <400> SEQUENCE: 4

W--&gt; 122 annnnt

7

125 <210> SEQ ID NO: 5  
 126 <211> LENGTH: 60  
 127 <212> TYPE: DNA  
 128 <213> ORGANISM: Artificial  
 130 <220> FEATURE:

## RAW SEQUENCE LISTING

DATE: 06/22/2006

PATENT APPLICATION: US/10/549,619

TIME: 13:00:47

Input Set : A:\sequence listing.txt

Output Set: N:\CRF4\06222006\J549619.raw

```

131 <223> OTHER INFORMATION: synthetic
134 <220> FEATURE:
135 <221> NAME/KEY: misc_feature
136 <222> LOCATION: (57)..(57)
137 <223> OTHER INFORMATION: Carboxy-dT
139 <400> SEQUENCE: 5
W--> 140 agcagttagt agtttggtact atgtagtacc tcgaccactt tttgtgggtcg aggtacnaca 60
143 <210> SEQ ID NO: 6
144 <211> LENGTH: 67
145 <212> TYPE: DNA
146 <213> ORGANISM: Artificial
148 <220> FEATURE:
149 <223> OTHER INFORMATION: synthetic
152 <220> FEATURE:
153 <221> NAME/KEY: misc_feature
154 <222> LOCATION: (57)..(57)
155 <223> OTHER INFORMATION: Carboxy-dT
157 <220> FEATURE:
158 <221> NAME/KEY: misc_feature
159 <222> LOCATION: (64)..(64)
160 <223> OTHER INFORMATION: Carboxy-dT
162 <400> SEQUENCE: 6
W--> 163 agcagttagt agtttggtact atgtagtacc tcgaccactt tttgtgggtcg aggtacnaca 60
165 tagnaca 67
168 <210> SEQ ID NO: 7
169 <211> LENGTH: 74
170 <212> TYPE: DNA
171 <213> ORGANISM: Artificial
173 <220> FEATURE:
174 <223> OTHER INFORMATION: synthetic
177 <220> FEATURE:
178 <221> NAME/KEY: misc_feature
179 <222> LOCATION: (57)..(57)
180 <223> OTHER INFORMATION: Carboxy-dT
182 <220> FEATURE:
183 <221> NAME/KEY: misc_feature
184 <222> LOCATION: (64)..(64)
185 <223> OTHER INFORMATION: Carboxy-dT
187 <220> FEATURE:
188 <221> NAME/KEY: misc_feature
189 <222> LOCATION: (71)..(71)
190 <223> OTHER INFORMATION: Carboxy-dT
192 <400> SEQUENCE: 7
W--> 193 agcagttagt agtttggtact atgtagtacc tcgaccactt tttgtgggtcg aggtacnaca 60
195 tagnacaaac nact 74
198 <210> SEQ ID NO: 8
199 <211> LENGTH: 7
200 <212> TYPE: DNA
201 <213> ORGANISM: Artificial

```

## RAW SEQUENCE LISTING

DATE: 06/22/2006

PATENT APPLICATION: US/10/549,619

TIME: 13:00:47

Input Set : A:\sequence listing.txt

Output Set: N:\CRF4\06222006\J549619.raw

```

203 <220> FEATURE:
204 <223> OTHER INFORMATION: synthetic
207 <220> FEATURE:
208 <221> NAME/KEY: misc_feature
209 <222> LOCATION: (1)..(1)
210 <223> OTHER INFORMATION: phosphate
212 <220> FEATURE:
213 <221> NAME/KEY: misc_feature
214 <222> LOCATION: (4)..(4)
215 <223> OTHER INFORMATION: C6 amino-dT
217 <400> SEQUENCE: 8
W--> 218 atgncat 7
221 <210> SEQ ID NO: 9
222 <211> LENGTH: 7
223 <212> TYPE: DNA
224 <213> ORGANISM: Artificial
226 <220> FEATURE:
227 <223> OTHER INFORMATION: synthetic
230 <220> FEATURE:
231 <221> NAME/KEY: misc_feature
232 <222> LOCATION: (4)..(4)
233 <223> OTHER INFORMATION: carboxy-dT
235 <400> SEQUENCE: 9
W--> 236 atcngta 7
239 <210> SEQ ID NO: 10
240 <211> LENGTH: 45
241 <212> TYPE: DNA
242 <213> ORGANISM: Artificial
244 <220> FEATURE:
245 <223> OTHER INFORMATION: synthetic
248 <220> FEATURE:
249 <221> NAME/KEY: misc_feature
250 <222> LOCATION: (1)..(1)
251 <223> OTHER INFORMATION: phosphate
253 <400> SEQUENCE: 10
254 ctaggtagta gacgatatct ctactaccta gatgacatat caagt 45
257 <210> SEQ ID NO: 11
258 <211> LENGTH: 53
259 <212> TYPE: DNA
260 <213> ORGANISM: Artificial
262 <220> FEATURE:
263 <223> OTHER INFORMATION: synthetic
265 <400> SEQUENCE: 11
266 agcagtttgt agtaagtact ttgtagtacc tcgaccactt tttgtggtcg agg 53
269 <210> SEQ ID NO: 12
270 <211> LENGTH: 62
271 <212> TYPE: DNA
272 <213> ORGANISM: Artificial
274 <220> FEATURE:

```

## RAW SEQUENCE LISTING

DATE: 06/22/2006

PATENT APPLICATION: US/10/549,619

TIME: 13:00:47

Input Set : A:\sequence listing.txt

Output Set: N:\CRF4\06222006\J549619.raw

```

275 <223> OTHER INFORMATION: synthetic
277 <400> SEQUENCE: 12
278 attgagcagt tagtagtttg tactatgtag tacctcgacc acctatatgt ctgtggtcga      60
280 gg                                                                    62
283 <210> SEQ ID NO: 13
284 <211> LENGTH: 7
285 <212> TYPE: DNA
286 <213> ORGANISM: Artificial
288 <220> FEATURE:
289 <223> OTHER INFORMATION: synthetic
292 <220> FEATURE:
293 <221> NAME/KEY: misc_feature
294 <222> LOCATION: (1)..(1)
295 <223> OTHER INFORMATION: phosphate
297 <220> FEATURE:
298 <221> NAME/KEY: misc_feature
299 <222> LOCATION: (4)..(4)
300 <223> OTHER INFORMATION: carboxy dT
302 <400> SEQUENCE: 13
W--> 303 tacnaca                                                         7
306 <210> SEQ ID NO: 14
307 <211> LENGTH: 7
308 <212> TYPE: DNA
309 <213> ORGANISM: Artificial
311 <220> FEATURE:
312 <223> OTHER INFORMATION: synthetic
315 <220> FEATURE:
316 <221> NAME/KEY: misc_feature
317 <222> LOCATION: (1)..(1)
318 <223> OTHER INFORMATION: phosphate
320 <220> FEATURE:
321 <221> NAME/KEY: misc_feature
322 <222> LOCATION: (4)..(4)
323 <223> OTHER INFORMATION: carboxy dT
325 <400> SEQUENCE: 14
W--> 326 tacnaca                                                         7
329 <210> SEQ ID NO: 15
330 <211> LENGTH: 7
331 <212> TYPE: DNA
332 <213> ORGANISM: Artificial
334 <220> FEATURE:
335 <223> OTHER INFORMATION: synthetic
338 <220> FEATURE:
339 <221> NAME/KEY: misc_feature
340 <222> LOCATION: (1)..(1)
341 <223> OTHER INFORMATION: phosphate
343 <220> FEATURE:
344 <221> NAME/KEY: misc_feature
345 <222> LOCATION: (4)..(4)

```

## RAW SEQUENCE LISTING ERROR SUMMARY

DATE: 06/22/2006

PATENT APPLICATION: US/10/549,619

TIME: 13:00:49

Input Set : A:\sequence listing.txt

Output Set: N:\CRF4\06222006\J549619.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:1; N Pos. 2,3,5,6  
Seq#:2; N Pos. 2,3,5,6  
Seq#:3; N Pos. 2,3,4,5,6  
Seq#:4; N Pos. 2,3,4,5,6  
Seq#:5; N Pos. 57  
Seq#:6; N Pos. 57,64  
Seq#:7; N Pos. 57,64,71  
Seq#:8; N Pos. 4  
Seq#:9; N Pos. 4  
Seq#:13; N Pos. 4  
Seq#:14; N Pos. 4  
Seq#:15; N Pos. 4

Invalid <213> Response:

Use of "Artificial" only as "<213> Organism" response is incomplete, per 1.823(b) of New Sequence Rules. Valid response is Artificial Sequence.

Seq#:1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19

## VERIFICATION SUMMARY

DATE: 06/22/2006

PATENT APPLICATION: US/10/549,619

TIME: 13:00:49

Input Set : A:\sequence listing.txt

Output Set: N:\CRF4\06222006\J549619.raw

L:9 M:270 C: Current Application Number differs, Replaced Current Application No  
L:9 M:271 C: Current Filing Date differs, Replaced Current Filing Date  
L:33 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:0  
L:56 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:0  
L:89 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 after pos.:0  
L:122 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 after pos.:0  
L:140 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5 after pos.:0  
L:163 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6 after pos.:0  
M:341 Repeated in SeqNo=6  
L:193 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7 after pos.:0  
M:341 Repeated in SeqNo=7  
L:218 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8 after pos.:0  
L:236 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9 after pos.:0  
L:303 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13 after pos.:0  
L:326 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14 after pos.:0  
L:349 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15 after pos.:0

## **RAW SEQUENCE LISTING**

**The Biotechnology Systems Branch of the Scientific and Technical  
Information Center (STIC) no errors detected.**

Application Serial Number: 10/549,619  
Source: PCT  
Date Processed by STIC: 06/22/2006

# ***ENTERED***

IAP7 Rec'd PCT/PTO 28 JUN 2006'



PCT

## RAW SEQUENCE LISTING

DATE: 06/22/2006

PATENT APPLICATION: US/10/549,619

TIME: 13:00:47

Input Set : A:\sequence listing.txt

Output Set: N:\CRF4\06222006\J549619.raw

3 <110> APPLICANT: Nuevolution A/S  
 5 <120> TITLE OF INVENTION: Ligational encoding of small molecules  
 7 <130> FILE REFERENCE: P909PC00  
 C--> 9 <140> CURRENT APPLICATION NUMBER: US/10/549,619  
 C--> 9 <141> CURRENT FILING DATE: 2005-09-20  
 9 <160> NUMBER OF SEQ ID NOS: 19  
 11 <170> SOFTWARE: PatentIn version 3.3  
 13 <210> SEQ ID NO: 1  
 14 <211> LENGTH: 7  
 15 <212> TYPE: DNA  
 16 <213> ORGANISM: Artificial  
 18 <220> FEATURE:  
 19 <223> OTHER INFORMATION: synthetic  
 22 <220> FEATURE:  
 23 <221> NAME/KEY: misc\_feature  
 24 <222> LOCATION: (2)..(3)  
 25 <223> OTHER INFORMATION: n is a, c, g, t or u  
 27 <220> FEATURE:  
 28 <221> NAME/KEY: misc\_feature  
 29 <222> LOCATION: (5)..(6)  
 30 <223> OTHER INFORMATION: n is a, c, g, t or u  
 32 <400> SEQUENCE: 1  
 W--> 33 tnnanna 7  
 36 <210> SEQ ID NO: 2  
 37 <211> LENGTH: 7  
 38 <212> TYPE: DNA  
 39 <213> ORGANISM: Artificial  
 41 <220> FEATURE:  
 42 <223> OTHER INFORMATION: synthetic  
 45 <220> FEATURE:  
 46 <221> NAME/KEY: misc\_feature  
 47 <222> LOCATION: (2)..(3)  
 48 <223> OTHER INFORMATION: n is a, c, g, t or u  
 50 <220> FEATURE:  
 51 <221> NAME/KEY: misc\_feature  
 52 <222> LOCATION: (5)..(6)  
 53 <223> OTHER INFORMATION: n is a, c, g, t or u  
 55 <400> SEQUENCE: 2  
 W--> 56 annannt 7  
 59 <210> SEQ ID NO: 3  
 60 <211> LENGTH: 7  
 61 <212> TYPE: DNA  
 62 <213> ORGANISM: Artificial

(pg-6)

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/549,619

DATE: 06/22/2006

TIME: 13:00:47

Input Set : A:\sequence\_listing.txt

Output Set: N:\CRF4\06222006\J549619.raw

64 <220> FEATURE:  
 65 <223> OTHER INFORMATION: synthetic  
 68 <220> FEATURE:  
 69 <221> NAME/KEY: misc\_feature  
 70 <222> LOCATION: (1)..(1)  
 71 <223> OTHER INFORMATION: phosphate  
 73 <220> FEATURE:  
 74 <221> NAME/KEY: misc\_feature  
 75 <222> LOCATION: (2)..(3)  
 76 <223> OTHER INFORMATION: n is a, c, g, t or u  
 78 <220> FEATURE:  
 79 <221> NAME/KEY: misc\_feature  
 80 <222> LOCATION: (4)..(4)  
 81 <223> OTHER INFORMATION: carboxy d-T  
 83 <220> FEATURE:  
 84 <221> NAME/KEY: misc\_feature  
 85 <222> LOCATION: (5)..(6)  
 86 <223> OTHER INFORMATION: n is a, c, g, t or u  
 88 <400> SEQUENCE: 3

W--&gt; 89 tnnnnna

7

92 <210> SEQ ID NO: 4  
 93 <211> LENGTH: 7  
 94 <212> TYPE: DNA  
 95 <213> ORGANISM: Artificial  
 97 <220> FEATURE:  
 98 <223> OTHER INFORMATION: synthetic  
 101 <220> FEATURE:  
 102 <221> NAME/KEY: misc\_feature  
 103 <222> LOCATION: (1)..(1)  
 104 <223> OTHER INFORMATION: phosphate  
 106 <220> FEATURE:  
 107 <221> NAME/KEY: misc\_feature  
 108 <222> LOCATION: (2)..(3)  
 109 <223> OTHER INFORMATION: n is a, c, g, t or u  
 111 <220> FEATURE:  
 112 <221> NAME/KEY: misc\_feature  
 113 <222> LOCATION: (4)..(4)  
 114 <223> OTHER INFORMATION: Carboxy-dT  
 116 <220> FEATURE:  
 117 <221> NAME/KEY: misc\_feature  
 118 <222> LOCATION: (5)..(6)  
 119 <223> OTHER INFORMATION: n is a, c, g, t or u  
 121 <400> SEQUENCE: 4

W--&gt; 122 annnnnt

7

125 <210> SEQ ID NO: 5  
 126 <211> LENGTH: 60  
 127 <212> TYPE: DNA  
 128 <213> ORGANISM: Artificial  
 130 <220> FEATURE:

## RAW SEQUENCE LISTING

DATE: 06/22/2006

PATENT APPLICATION: US/10/549,619

TIME: 13:00:47

Input Set : A:\sequence listing.txt

Output Set: N:\CRF4\06222006\J549619.raw

131 <223> OTHER INFORMATION: synthetic  
 134 <220> FEATURE:  
 135 <221> NAME/KEY: misc\_feature  
 136 <222> LOCATION: (57)..(57)  
 137 <223> OTHER INFORMATION: Carboxy-dT  
 139 <400> SEQUENCE: 5

W--> 140 agcagttagt agtttgtact atgtagtacc tcgaccactt tttgtggtcg aggtacnaca 60

143 <210> SEQ ID NO: 6  
 144 <211> LENGTH: 67  
 145 <212> TYPE: DNA  
 146 <213> ORGANISM: Artificial  
 148 <220> FEATURE:  
 149 <223> OTHER INFORMATION: synthetic  
 152 <220> FEATURE:  
 153 <221> NAME/KEY: misc\_feature  
 154 <222> LOCATION: (57)..(57)  
 155 <223> OTHER INFORMATION: Carboxy-dT  
 157 <220> FEATURE:  
 158 <221> NAME/KEY: misc\_feature  
 159 <222> LOCATION: (64)..(64)  
 160 <223> OTHER INFORMATION: Carboxy-dT  
 162 <400> SEQUENCE: 6

W--> 163 agcagttagt agtttgtact atgtagtacc tcgaccactt tttgtggtcg aggtacnaca 60

165 tagnaca 67  
 168 <210> SEQ ID NO: 7  
 169 <211> LENGTH: 74  
 170 <212> TYPE: DNA  
 171 <213> ORGANISM: Artificial  
 173 <220> FEATURE:  
 174 <223> OTHER INFORMATION: synthetic  
 177 <220> FEATURE:  
 178 <221> NAME/KEY: misc\_feature  
 179 <222> LOCATION: (57)..(57)  
 180 <223> OTHER INFORMATION: Carboxy-dT  
 182 <220> FEATURE:  
 183 <221> NAME/KEY: misc\_feature  
 184 <222> LOCATION: (64)..(64)  
 185 <223> OTHER INFORMATION: Carboxy-dT  
 187 <220> FEATURE:  
 188 <221> NAME/KEY: misc\_feature  
 189 <222> LOCATION: (71)..(71)  
 190 <223> OTHER INFORMATION: Carboxy-dT  
 192 <400> SEQUENCE: 7

W--> 193 agcagttagt agtttgtact atgtagtacc tcgaccactt tttgtggtcg aggtacnaca 60

195 tagnacaaac nact 74  
 198 <210> SEQ ID NO: 8  
 199 <211> LENGTH: 7  
 200 <212> TYPE: DNA  
 201 <213> ORGANISM: Artificial

## RAW SEQUENCE LISTING

DATE: 06/22/2006

PATENT APPLICATION: US/10/549,619

TIME: 13:00:47

Input Set : A:\sequence listing.txt

Output Set: N:\CRF4\06222006\J549619.raw

```

203 <220> FEATURE:
204 <223> OTHER INFORMATION: synthetic
207 <220> FEATURE:
208 <221> NAME/KEY: misc_feature
209 <222> LOCATION: (1)..(1)
210 <223> OTHER INFORMATION: phosphate
212 <220> FEATURE:
213 <221> NAME/KEY: misc_feature
214 <222> LOCATION: (4)..(4)
215 <223> OTHER INFORMATION: C6 amino-dT
217 <400> SEQUENCE: 8
W--> 218 atgncat 7
221 <210> SEQ ID NO: 9
222 <211> LENGTH: 7
223 <212> TYPE: DNA
224 <213> ORGANISM: Artificial
226 <220> FEATURE:
227 <223> OTHER INFORMATION: synthetic
230 <220> FEATURE:
231 <221> NAME/KEY: misc_feature
232 <222> LOCATION: (4)..(4)
233 <223> OTHER INFORMATION: carboxy-dT
235 <400> SEQUENCE: 9
W--> 236 atcngta 7
239 <210> SEQ ID NO: 10
240 <211> LENGTH: 45
241 <212> TYPE: DNA
242 <213> ORGANISM: Artificial
244 <220> FEATURE:
245 <223> OTHER INFORMATION: synthetic
248 <220> FEATURE:
249 <221> NAME/KEY: misc_feature
250 <222> LOCATION: (1)..(1)
251 <223> OTHER INFORMATION: phosphate
253 <400> SEQUENCE: 10
254 ctaggtagta gacgatattct ctactaccta gatgacatat caagt 45
257 <210> SEQ ID NO: 11
258 <211> LENGTH: 53
259 <212> TYPE: DNA
260 <213> ORGANISM: Artificial
262 <220> FEATURE:
263 <223> OTHER INFORMATION: synthetic
265 <400> SEQUENCE: 11
266 agcagtttgt agtaagtact ttgtagtacc tcgaccactt tttgtggtcg agg 53
269 <210> SEQ ID NO: 12
270 <211> LENGTH: 62
271 <212> TYPE: DNA
272 <213> ORGANISM: Artificial
274 <220> FEATURE:

```

## RAW SEQUENCE LISTING

DATE: 06/22/2006

PATENT APPLICATION: US/10/549,619

TIME: 13:00:47

Input Set : A:\sequence\_listing.txt

Output Set: N:\CRF4\06222006\J549619.raw

```

275 <223> OTHER INFORMATION: synthetic
277 <400> SEQUENCE: 12
278 attgagcagt tagtagtttg tactatgtag tacctcgacc acctatatgt ctgtgggtcga      60
280 gg                                                                    62
283 <210> SEQ ID NO: 13
284 <211> LENGTH: 7
285 <212> TYPE: DNA
286 <213> ORGANISM: Artificial
288 <220> FEATURE:
289 <223> OTHER INFORMATION: synthetic
292 <220> FEATURE:
293 <221> NAME/KEY: misc_feature
294 <222> LOCATION: (1)..(1)
295 <223> OTHER INFORMATION: phosphate
297 <220> FEATURE:
298 <221> NAME/KEY: misc_feature
299 <222> LOCATION: (4)..(4)
300 <223> OTHER INFORMATION: carboxy dT
302 <400> SEQUENCE: 13
W--> 303 tacnaca                                                                7
306 <210> SEQ ID NO: 14
307 <211> LENGTH: 7
308 <212> TYPE: DNA
309 <213> ORGANISM: Artificial
311 <220> FEATURE:
312 <223> OTHER INFORMATION: synthetic
315 <220> FEATURE:
316 <221> NAME/KEY: misc_feature
317 <222> LOCATION: (1)..(1)
318 <223> OTHER INFORMATION: phosphate
320 <220> FEATURE:
321 <221> NAME/KEY: misc_feature
322 <222> LOCATION: (4)..(4)
323 <223> OTHER INFORMATION: carboxy dT
325 <400> SEQUENCE: 14
W--> 326 tacnaca                                                                7
329 <210> SEQ ID NO: 15
330 <211> LENGTH: 7
331 <212> TYPE: DNA
332 <213> ORGANISM: Artificial
334 <220> FEATURE:
335 <223> OTHER INFORMATION: synthetic
338 <220> FEATURE:
339 <221> NAME/KEY: misc_feature
340 <222> LOCATION: (1)..(1)
341 <223> OTHER INFORMATION: phosphate
343 <220> FEATURE:
344 <221> NAME/KEY: misc_feature
345 <222> LOCATION: (4)..(4)

```

RAW SEQUENCE LISTING ERROR SUMMARY  
PATENT APPLICATION: US/10/549,619

DATE: 06/22/2006  
TIME: 13:00:49

Input Set : A:\sequence listing.txt  
Output Set: N:\CRF4\06222006\J549619.raw

**Please Note:**

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:1; N Pos. 2,3,5,6  
Seq#:2; N Pos. 2,3,5,6  
Seq#:3; N Pos. 2,3,4,5,6  
Seq#:4; N Pos. 2,3,4,5,6  
Seq#:5; N Pos. 57  
Seq#:6; N Pos. 57,64  
Seq#:7; N Pos. 57,64,71  
Seq#:8; N Pos. 4  
Seq#:9; N Pos. 4  
Seq#:13; N Pos. 4  
Seq#:14; N Pos. 4  
Seq#:15; N Pos. 4

**Invalid <213> Response:**

Use of "Artificial" only as "<213> Organism" response is incomplete, per 1.823(b) of New Sequence Rules. Valid response is Artificial Sequence.

Seq#:1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19

## VERIFICATION SUMMARY

PATENT APPLICATION: US/10/549,619

DATE: 06/22/2006

TIME: 13:00:49

Input Set : A:\sequence listing.txt

Output Set: N:\CRF4\06222006\J549619.raw

L:9 M:270 C: Current Application Number differs, Replaced Current Application No  
L:9 M:271 C: Current Filing Date differs, Replaced Current Filing Date  
L:33 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:0  
L:56 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:0  
L:89 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 after pos.:0  
L:122 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 after pos.:0  
L:140 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5 after pos.:0  
L:163 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6 after pos.:0  
M:341 Repeated in SeqNo=6  
L:193 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7 after pos.:0  
M:341 Repeated in SeqNo=7  
L:218 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8 after pos.:0  
L:236 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9 after pos.:0  
L:303 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13 after pos.:0  
L:326 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14 after pos.:0  
L:349 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15 after pos.:0